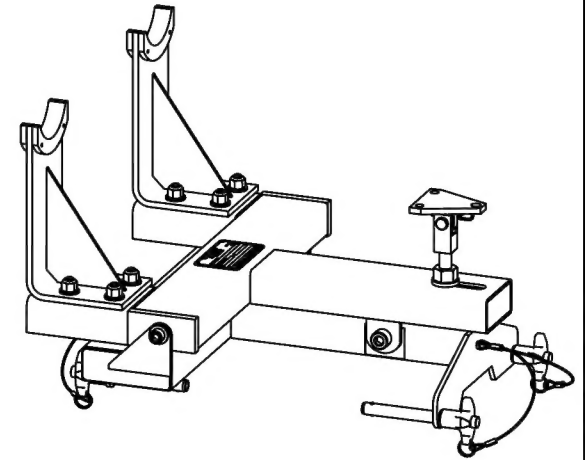
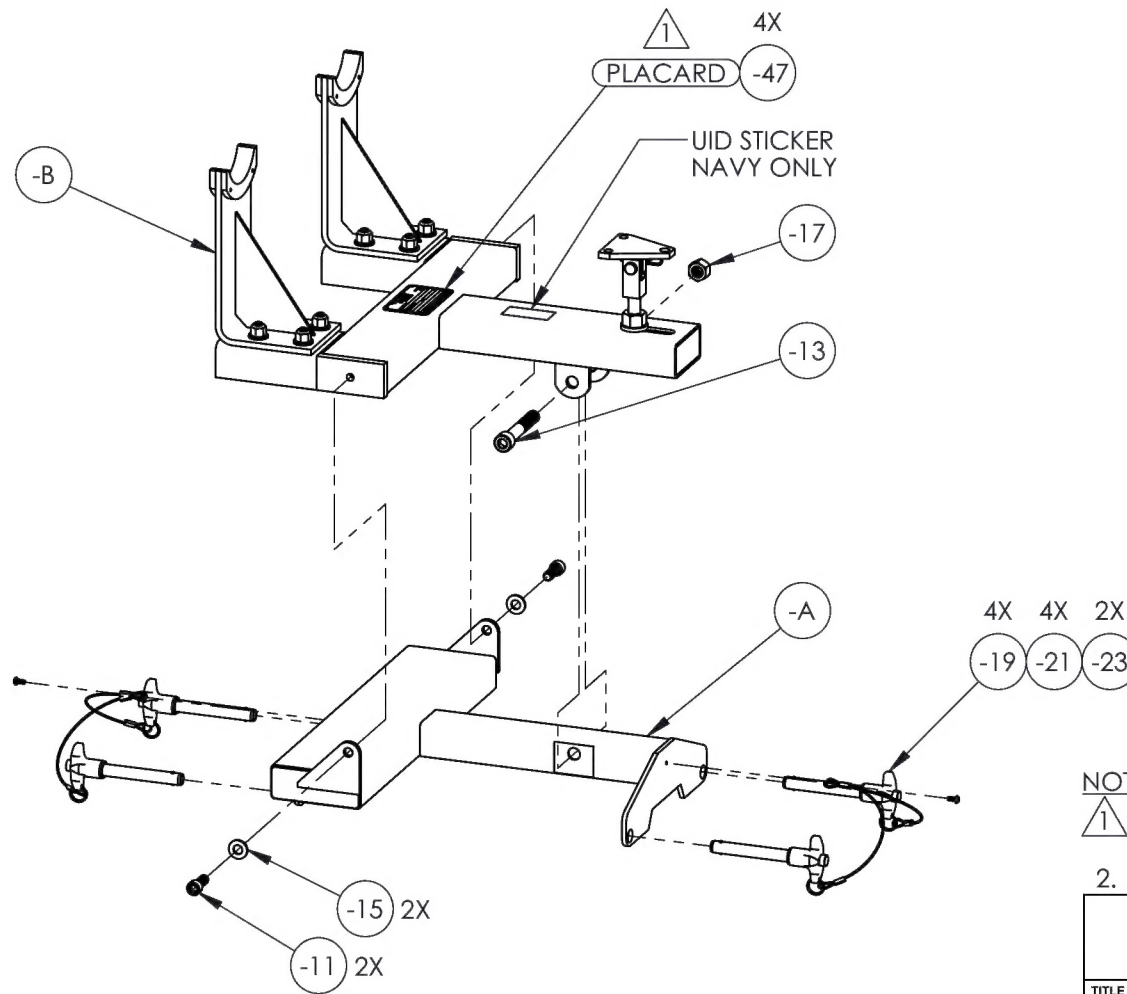


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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

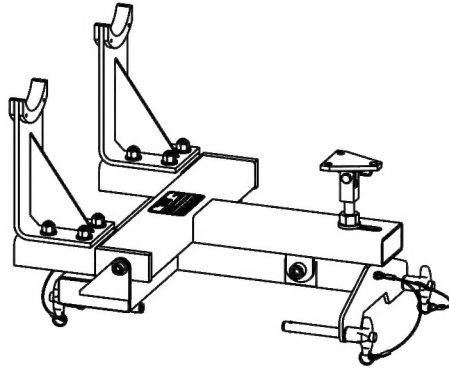


NOTES:

1. RB41009 RED BARN PLACARD FOR NAVY ONLY, RB41011 DART PLACARD FOR ALL OTHERS.
2. MADE TO FIT RBT18640 JACKING ASSEMBLY.

DART AEROSPACE	
TITLE ENGINE REMOVAL ADAPTER	
DWG NO. RBT18640-101	REV 5
MAT'L	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	FIRE SCOUT
SCALE 1:8	DATE 8/10/2007
SHEET 1 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		EXTENDED -5 BY .025, MOVED -1 PIN HOLES DOWN .063, DELETED TWO LANYARD SCREW HOLES AND CENTERD REMAINING TWO, ADDED CUT OUT FOR FUTURE TILT ADJUSTMENT OPTION, SHORTENED -7 BY .075, ADDED 45° SIDE TO -3, CREATED -25, ADDED UPPER PORTION OF 269T3301 TO UNIT, AND -11 WAS Ø1/2X1/2 SHOULDER BOLTS, ELIMINATED WASHERS LANYARD SCREWS CHANGED FROM #6 TO #8.	10/11/2007	WP	DW
2		DELETED NOTE 1, ADDED NOTES 2 & 3, CH'D ALL BOM HARDWARE FROM PLAIN STEEL TO S.S. & ADDED P/N'S.	8/29/2011	RJC	-
3		CH'D -7 OVERALL LENGTH FROM 15.915 MIN AND ADDED TOLERANCE PER G.E.	12/2/2011	RJC	GE
3A		-A ADDED FINISH POWDER COAT WHITE. ADDED -15, -45, -1 CH'D DIMS WAS 4X 2.562 IS 2X 2.562, CH'D B/O INFO WAS 3/16 X 3 X 9-1/2 IS 3/16 X 3 X 9-5/8. -3 CH'D B/O INFO WAS 3/16 X 2-3/4 X 2-1/4 IS 3/16 X 2-7/8 X 2-1/4. -1, -3, -25 CH'D DIM WAS .19 IS (.19). -5 CH'D DIMS WAS .120 IS (.120), WAS 1.50 IS (1.50), WAS 2.00 IS (2.00). CH'D B/O INFO WAS .120 X 2 X 1-1/2 X 10-3/8 IS .120 X 2 X 1-1/2 X 10-1/2. -7 CH'D DIMS WAS .120 IS (.120), WAS 1.50 IS (1.50), WAS 4.00 IS (4.00). -25 CH'D B/O INFO WAS 3/16 X 2-1/4 X 4-1/2 IS 3/16 X 2-1/4 X 4-5/8.	6/4/2014	DPD	RJC
5	15-0348	UPDATED TO NEW STANDARDS. -27, -29, -31, -33, -35, -37, -39, -41 REMOVED DASH NUMBERS. -A DELETED DIM 1/32. CH'D DIMS WAS 8-9/16 IS (8.56), WAS 7-5/16 IS 2X 7.300±.015, WAS 1 IS (1.063), WAS 1-1/2 IS 1.56. -1 CH'D DIMS WAS 2X #8-32 UNC THRU IS 8-32 UNC - 2B THRU ALL, WAS (.19) IS .19, WAS 2X 60° IS (2X 60°), WAS 2X 1.678 IS 2X 1.68, WAS 2X 2.111 IS 2X 2.11. -3 CH'D DIMS WAS .500 IS .50, WAS 1.813 IS 1.81, WAS (.19) IS .19. -5 CH'D DIMS WAS 10.400 IS 10.40, WAS 2X SKIM .040 IS (2X SKIM .040), WAS 2X .500 IS .500, WAS (.120) IS .12, WAS (1.50) IS 1.50, WAS (2.00) IS 2.00. -7 CH'D DIMS WAS 7.958 IS 7.96, WAS (1.50) IS 1.50, WAS (4.00) IS 4.00, WAS (.120) IS .12, WAS 8-32 UNC ONE SIDE IS 8-32 UNC - 2B 13. -9 CH'D DIM WAS (.105 12ga) IS .10 (12ga). -25 CH'D DIMS WAS 45° IS 2X 45°, WAS (.21) IS (2X .21), WAS (.19) IS .19. -45 DELETED FROM BOM. -47 ADDED TO BOM.	3/21/2016	DPD	JAG

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-A	1	BOTTOM ADAPTER ASSEMBLY			3
	1		-1		FRONT MOUNT	A709 GRADE 36		4
	2		-3		SIDE TABS	A709 GRADE 36		5
	1		-5		CENTER TUBE	STEEL TUBE		6
	1		-7		REAR TUBE	STEEL TUBE		7
	2		-9		END CAPS	A709 GRADE 36		8
8		B/O	-11	2	S.H.C SCREWS	S.S.	3/8-16 X 1 (MCMASTER-CARR #92196A624)	1 & 10
		B/O	-13	1	S.H.C. SCREW	S.S.	1/2-13 X 3-1/4 (92196A725)	1
8		B/O	-15	2	WASHER	S.S.	Ø3/8 (MCMASTER-CARR #96659A108)	1 & 10
		B/O	-17	1	NYLON INSERT LOCK NUT	S.S.	1/2-13 (MCMASTER-CARR #91831A137)	1
		B/O	-19	4	T-HANDLE QUICK RELEASE PINS	S.S.	Ø1/2 X 3 (ESSENTA COMPONENTS #BLTS-140)	1
		B/O	-21	4	LANYARDS W/ NYLON COATING	S.S.	Ø1/16 X 8 (ESSENTA COMPONENTS #FPC-210)	1
		B/O	-23	2	BUTTON H.C. SCREWS	S.S.	8-32 X 3/8 (MCMASTER-CARR #92949A192)	1
	2		-25		REAR TABS	A709 GRADE 36		9
8		B/O	-43		NYLON INSERT NUTS	S.S.	3/8-16 (MCMASTER-CARR #91831A127)	10
		B/O	-47	4	#2 DRIVE SCREW	COATED STEEL	#2 X 1/8 (MCMASTER-CARR #90081A074)	1
X			-B	1	UPPER ADAPTER ASSEMBLY			10
1					CARRIAGE WELDMENT		269T3301-14	10
2					CRADLE ARM ASSEMBLY		269T3301-18	10
1					NUT PLATE WELDMENT		269T3301-21	10
1		B/O			CLEVIS PIN		269T3301-22	10
1		B/O			FLANGE NUT		269T3301-23	10
1		B/O			HAIR PIN		269T3301-24	10
1					STUD WELDMENT		269T3301-25	10
1					FRONT ENGINE MOUNT WELDMENT		269T3301-27	10
		B/O		1	PLACARD	ALUMINUM	RB41009 RED BARN OR RB41011 DART; SEE NOTE SHEET 1	1
ASSY -B	ASSY -A							

NOTES:

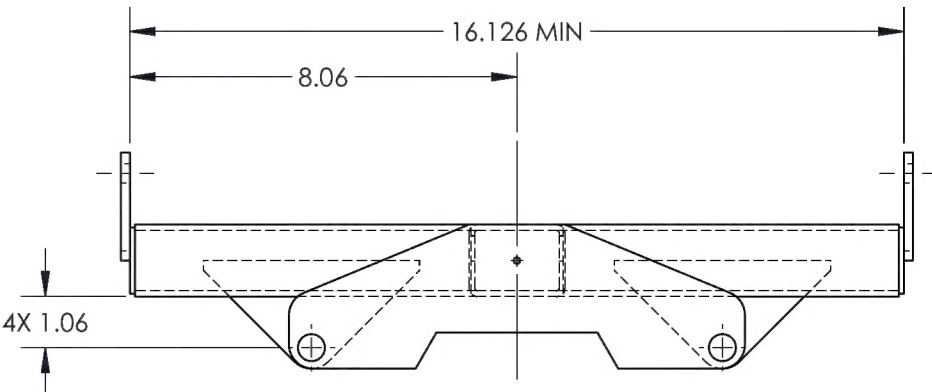
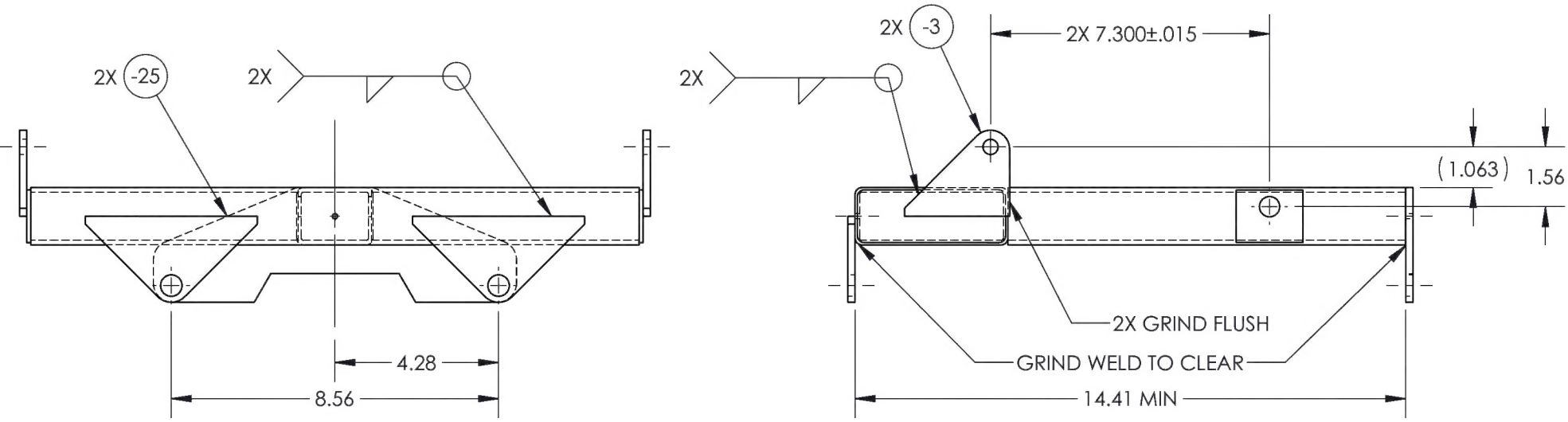
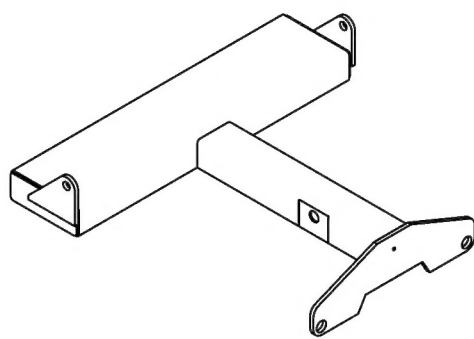
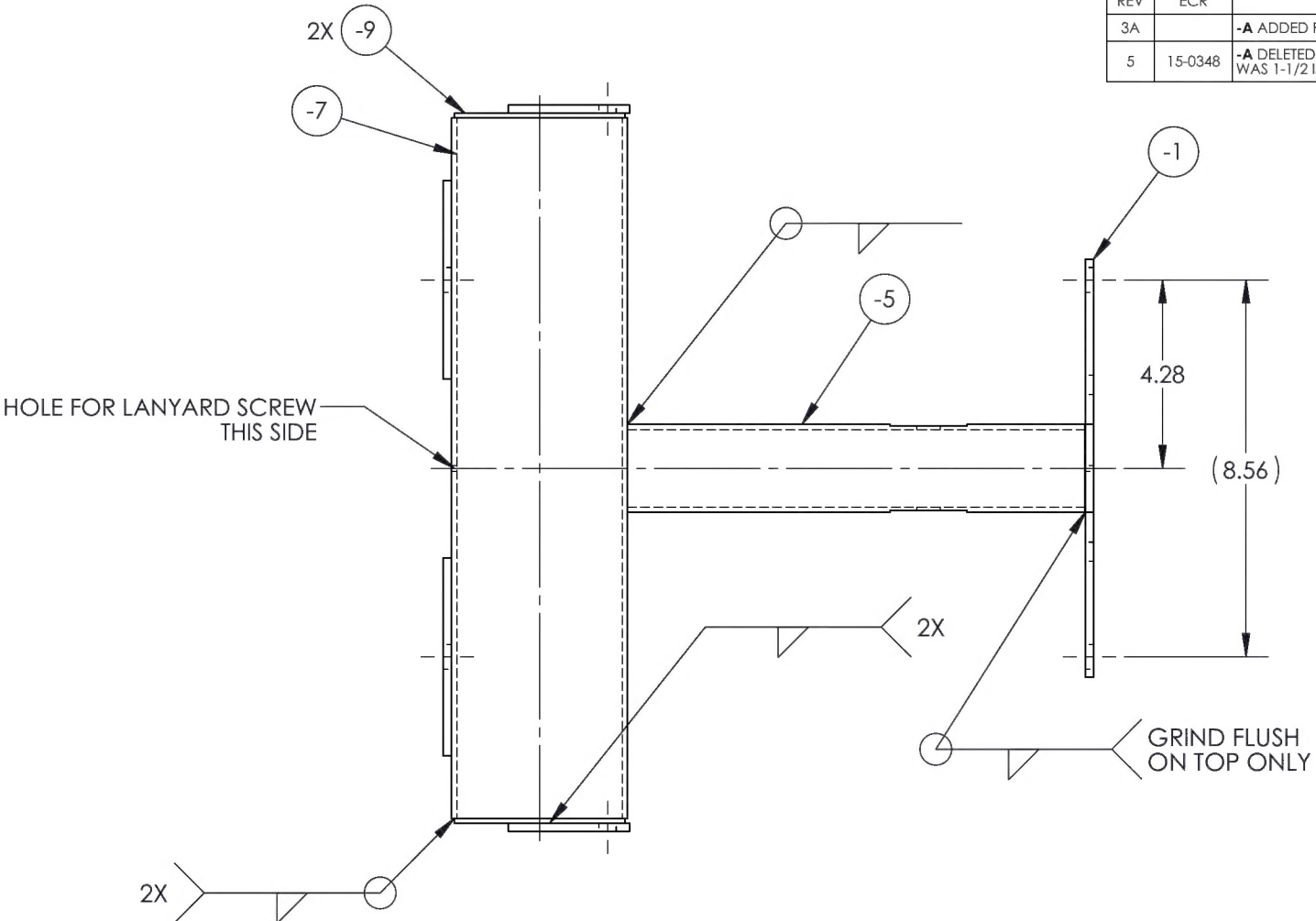
- UNIT IS TO BE WEIGHT TESTED TO 400 LBS.
- THIS IS THE GENERIC PLATE SPEC FOR WHAT IS COMMONLY REFERRED TO AS 1018.
- MATERIAL MAY VARY DEPENDING ON COMMERCIAL AVAILABILITY.



TITLE			ENGINE REMOVAL ADAPTER		
DWG NO.			RBT18640-101		REV 5
MAT'L			DRAWN BY: PERRITT		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			APPROVED		
.XXX ± .005			HEAT TREAT		
.XX ± .01			FINISH		
.X ± .1			SPEC		
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R			USED ON MODEL		
2. DIMENSIONAL LIMITS APPLY AFTER PLATING			FIRE SCOUT		
SCALE 1:10		DATE 8/10/2007	SHEET 2 OF 11		

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3A		-A ADDED FINISH POWDER COAT WHITE.	6/4/2014	DPD	RJC
5	15-0348	-A DELETED DIM 1/32. CH'D DIMS WAS 8-9/16 IS (8.56), WAS 7-5/16 IS 2X 7.300±.015, WAS 1 IS (1.063), WAS 1-1/2 IS 1.56.	3/21/2016	DPD	JAG

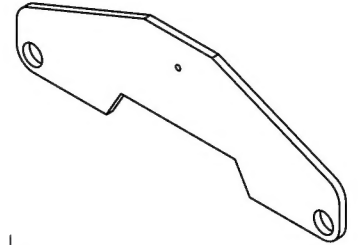
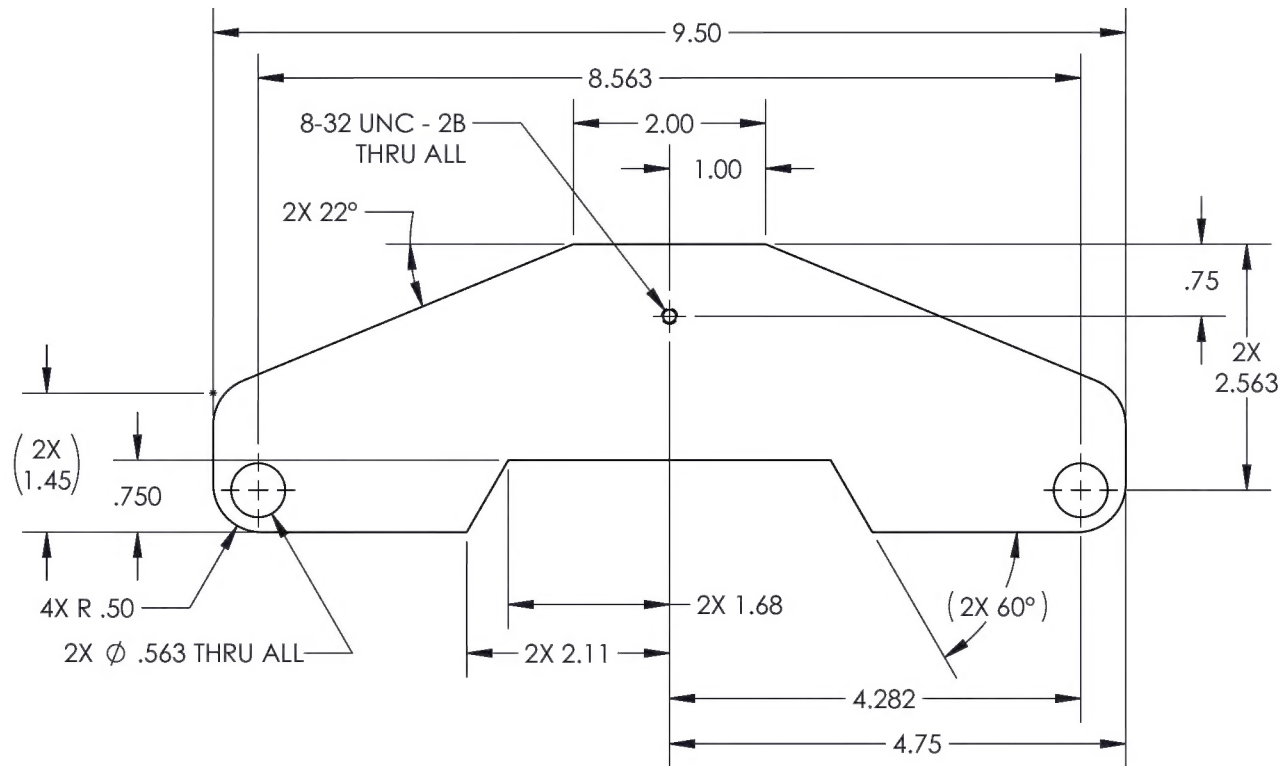


(-A)
BOTTOM ADAPTER ASSEMBLY

DART AEROSPACE			
TITLE ENGINE REMOVAL ADAPTER			
DWG NO. RBT18640-101-A		REV 5	
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1		DRAWN BY: PERRITT APPROVED: <i>D Weil</i> TREAT: FINISH: POWDER COAT WHITE SPEC:	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL FIRE SCOUT	
SCALE 1:4	DATE 8/10/2007	SHEET 3 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3A		-1 CH'D DIMS WAS 4X 2.562 IS 2X 2.562, WAS .19 IS (.19).	6/4/2014	DPD	RJC
5	15-0348	-1 CH'D DIMS WAS 2X #8-32 UNC THRU IS 8-32 UNC - 2B THRU ALL, WAS (.19) IS .19, WAS 2X 60° IS (2X 60°), WAS 2X 1.678 IS 2X 1.68, WAS 2X 2.111 IS 2X 2.11.	3/21/2016	DPD	JAG

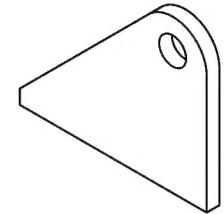
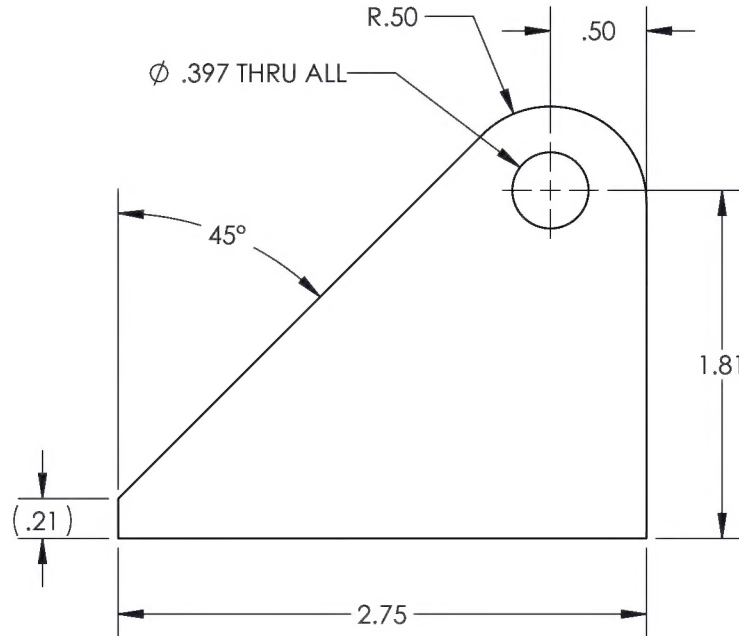
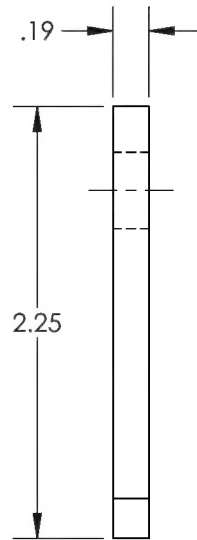


(-1)
FRONT MOUNT

DART AEROSPACE	
TITLE ENGINE REMOVAL ADAPTER	
DWG NO. RBT18640-101-1	REV 5
MAT'L A709 GRADE 36	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 .XX ± .01 .X ± .1	HEAT TREAT FINISH SEE -A WELDMENT
FRACTIONS ± 1/8 ANGLES ± 5°	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT
SCALE 1:2	DATE 8/10/2007
SHEET 4 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3A		-3 CH'D DIM WAS .19 IS (.19).	6/4/2014	DPD	RJC
5	15-0348	-3 CH'D DIMS WAS .500 IS .50, WAS 1.813 IS 1.81, WAS (.19) IS .19.	3/21/2016	DPD	JAG

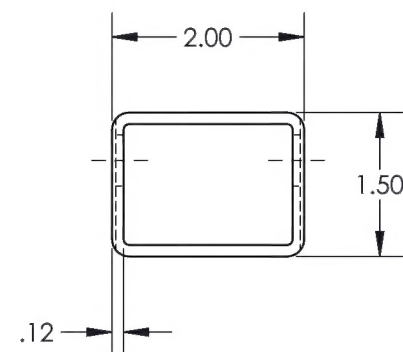
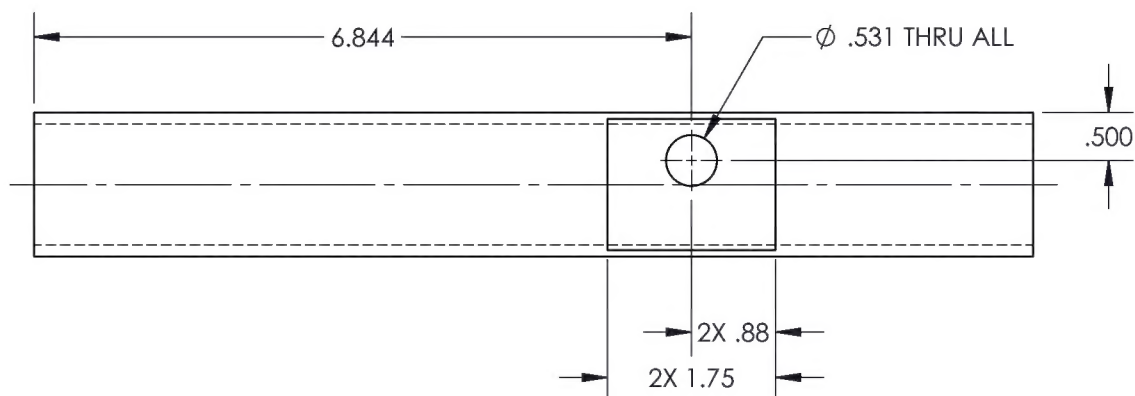
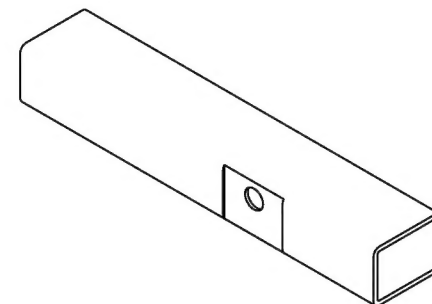
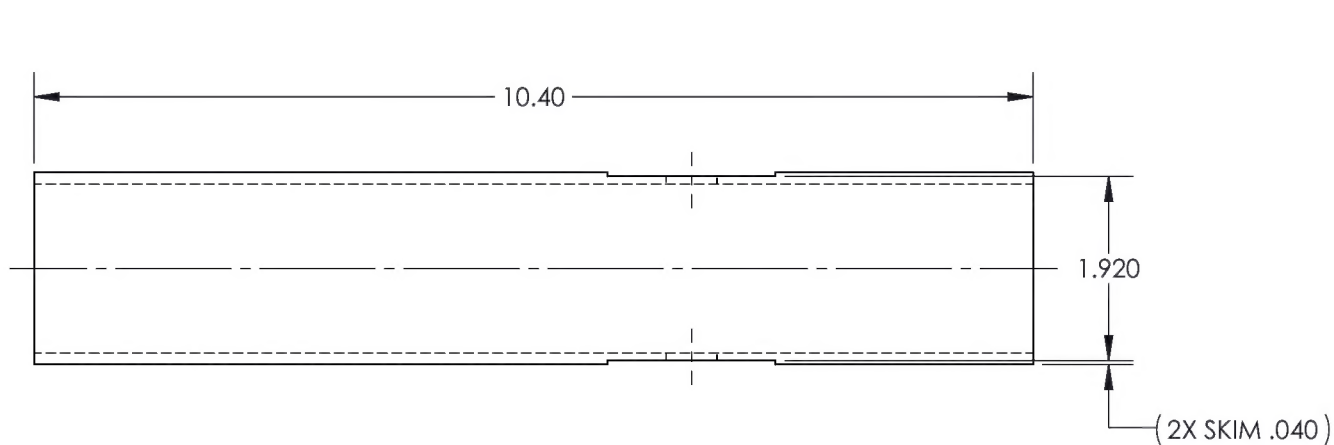


(-3)
SIDE TABS

DART AEROSPACE	
TITLE ENGINE REMOVAL ADAPTER	
DWG NO. RBT18640-101-3	REV 5
MAT'L A709 GRADE 36	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -A WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT
SCALE 1:1	DATE 8/10/2007
SHEET 5 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3A		-5 CH'D DIMS WAS .120 IS (.120), WAS 1.50 IS (1.50), WAS 2.00 IS (2.00).	6/4/2014	DPD	RJC
5	15-0348	-5 CH'D DIMS WAS 10.400 IS 10.40, WAS 2X SKIM .040 IS (2X SKIM .040), WAS 2X .500 IS .500, WAS (.120) IS .12, WAS (1.50) IS 1.50, WAS (2.00) IS 2.00.	3/21/2016	DPD	JAG

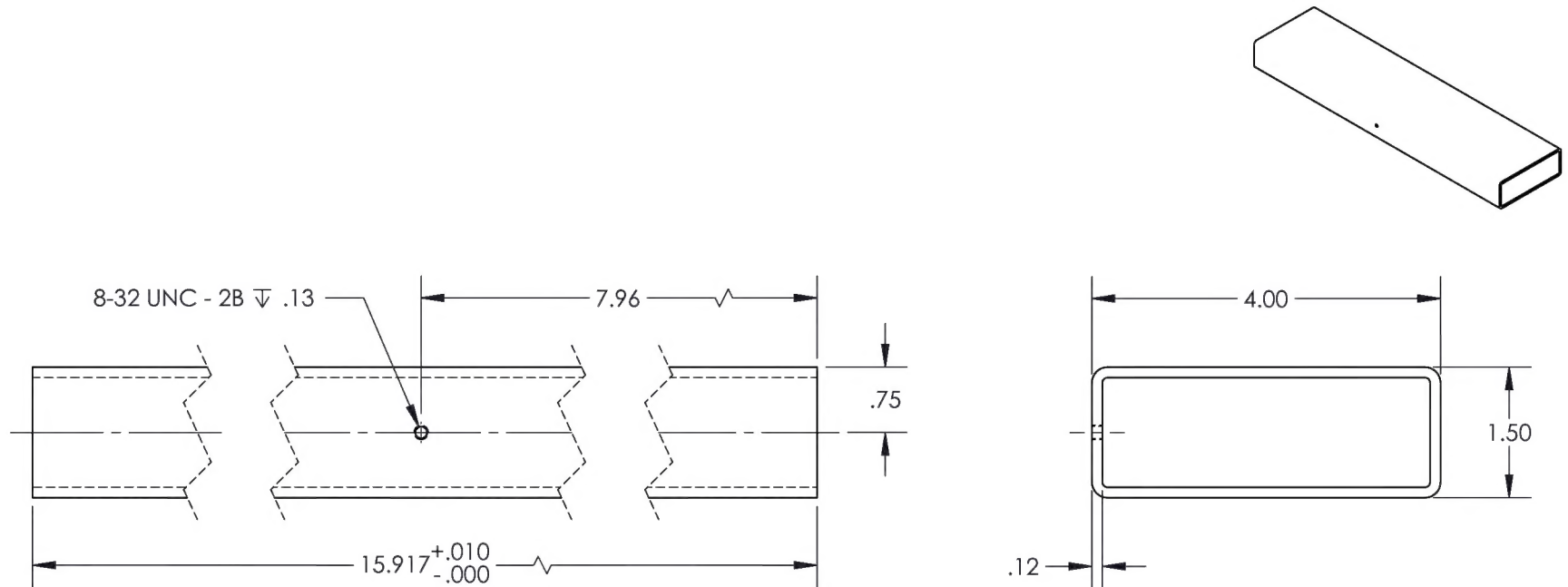


⑤
CENTER TUBE

DART AEROSPACE	
TITLE ENGINE REMOVAL ADAPTER	
DWG NO. RBT18640-101-5	REV 5
MAT'L STEEL TUBE	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED D Weil
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -A WELDMENT
.X ± .1	ANGLES ± 5°
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL FIRE SCOUT
SCALE 1:2	DATE 8/10/2007
SHEET 6 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3		CHANGED -7 OVERALL LENGTH FROM 15.915 MIN. AND ADDED TOLERANCE PER G.E.	12/2/2011	RJC	GE
3A		-7 CH'D DIMS WAS .120 IS (.120), WAS 1.50 IS (1.50), WAS 4.00 IS (4.00).	6/4/2014	DPD	RJC
5	15-0348	-7 CH'D DIMS WAS 7.958 IS 7.96, WAS (1.50) IS 1.50, WAS (4.00) IS 4.00, WAS (.120) IS .12, WAS 8-32 UNC ONE SIDE IS 8-32 UNC - 2B ∇ .13.	3/21/2016	DPD	JAG

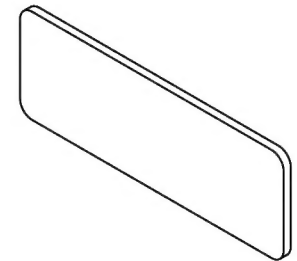
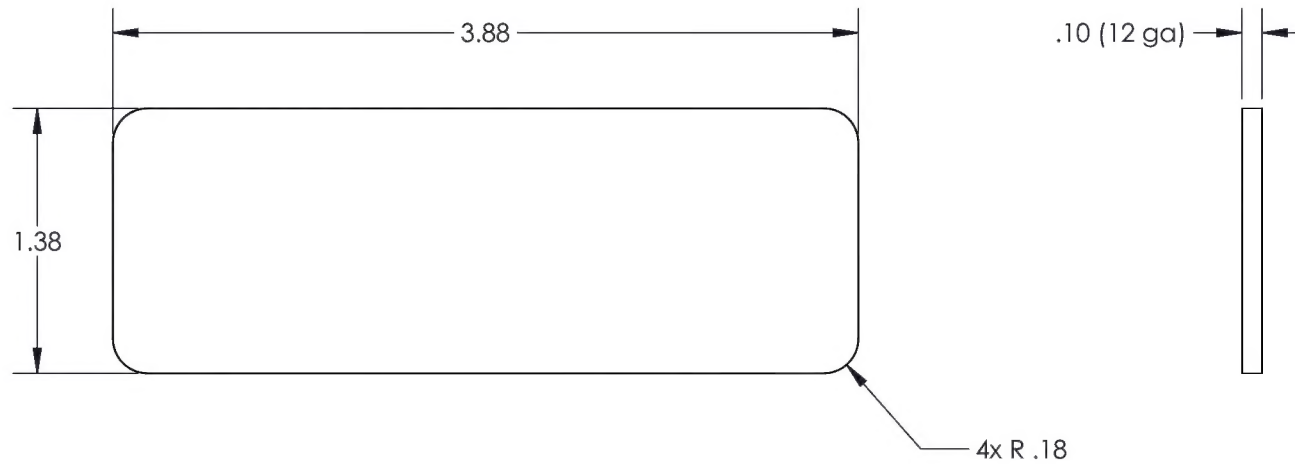


(-7)
REAR TUBE

DART AEROSPACE	
TITLE ENGINE REMOVAL ADAPTER	
DWG NO. RBT18640-101-7	REV 5
MAT'L STEEL TUBE	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX \pm .005 FRACTIONS \pm 1/8	HEAT TREAT
.XX \pm .01 ANGLES \pm 5°	FINISH SEE -A WELDMENT
.X \pm .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT
SCALE 1:2	DATE 8/10/2007
SHEET 7 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5	15-0348	-9 CH'D DIM WAS (.105 12ga) IS .10 (12ga).	3/22/2016	DPD	JAG

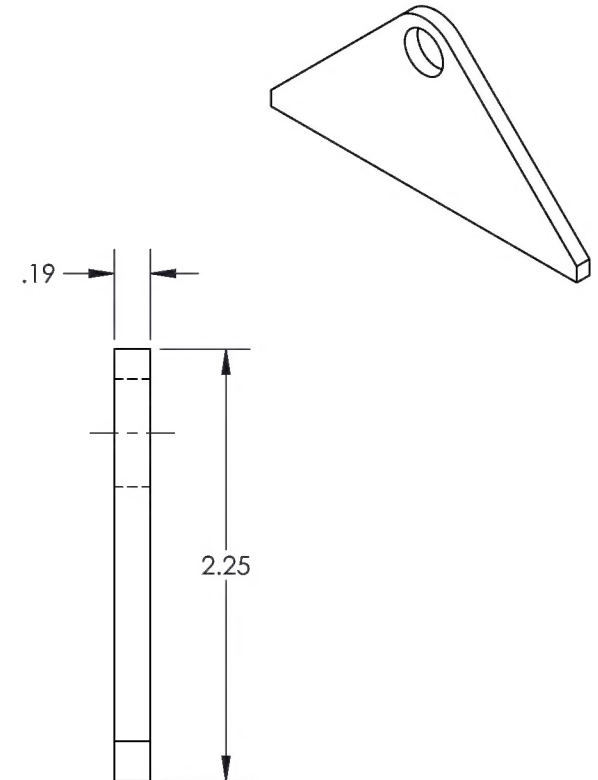
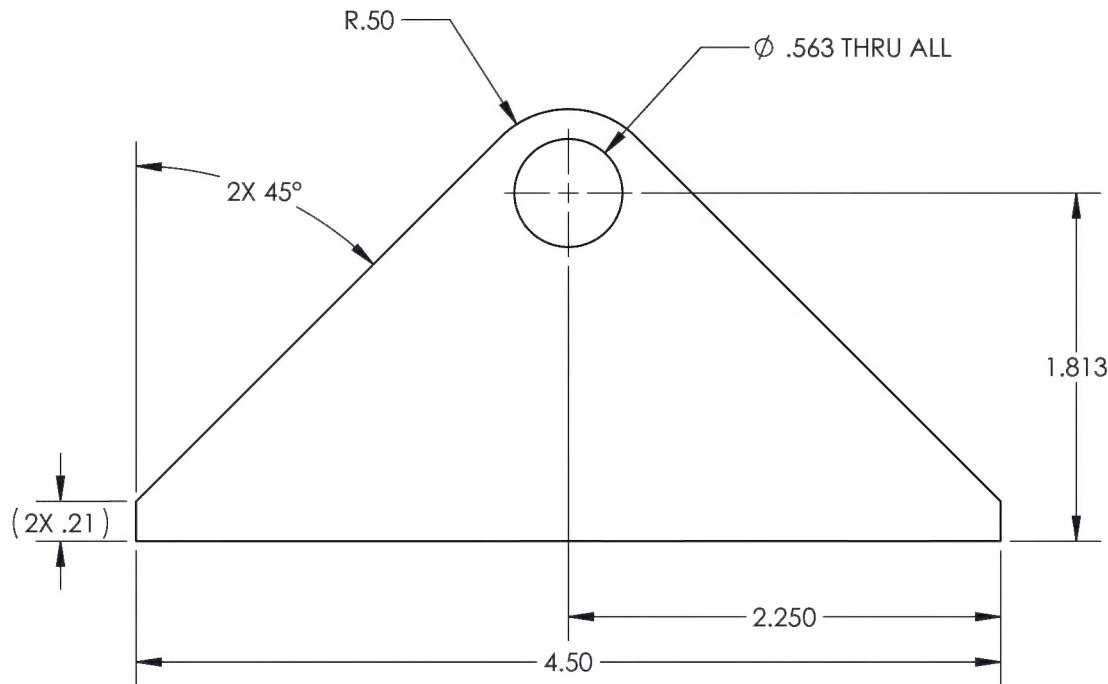


(-9)
END CAPS

DART AEROSPACE	
TITLE ENGINE REMOVAL ADAPTER	
DWG NO. RBT18640-101-9	REV 5
MAT'L A709 GRADE 36	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -A WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT
SCALE 1:1	DATE 8/10/2007
SHEET 8 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3A		-25 CH'D DIM WAS .19 IS (.19).	6/4/2014	DPD	RJC
5	15-0348	-25 CH'D DIMS WAS 45° IS 2X 45°, WAS (.21) IS (2X .21), WAS (.19) IS .19.	3/22/2016	DPD	JAG

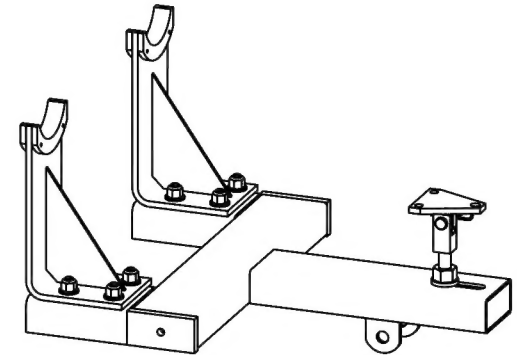
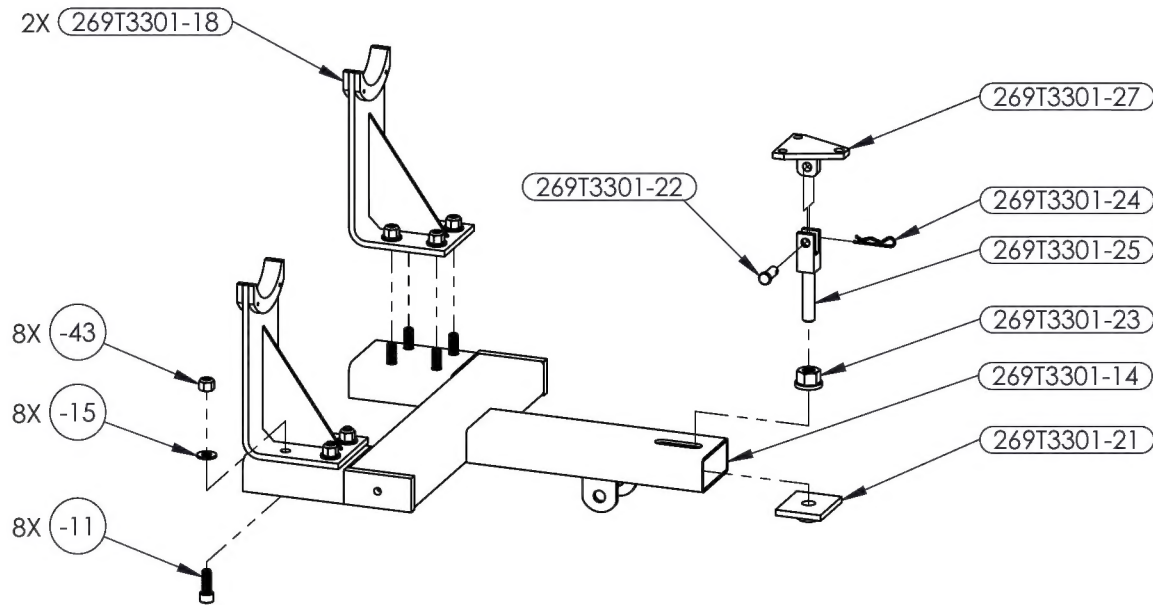


(-25)
REAR TABS

DART AEROSPACE	
TITLE ENGINE REMOVAL ADAPTER	
DWG NO. RBT18640-101-25	REV 5
MAT'L A709 GRADE 36	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -A WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT
SCALE 1:1	DATE 8/10/2007
SHEET 9 OF 11	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

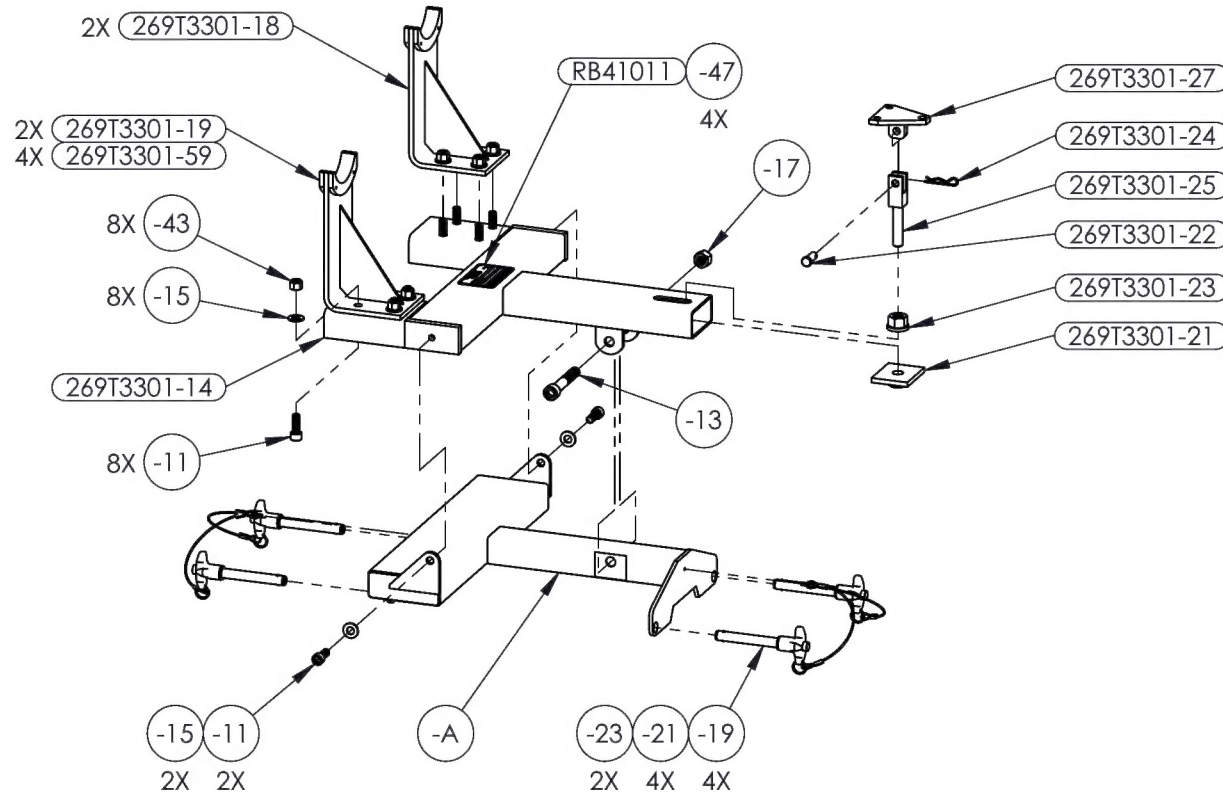
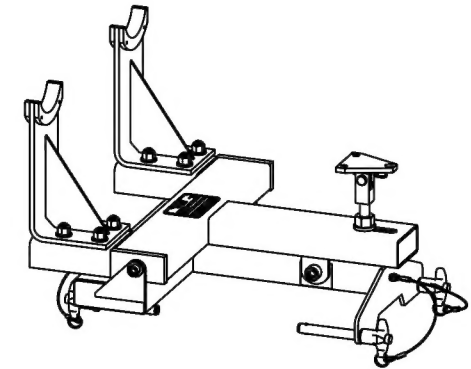


(-B)

UPPER ADAPTER ASSEMBLY

DART AEROSPACE	
TITLE ENGINE REMOVAL ADAPTER	
DWG NO. RBT18640-101-B	REV 5
MAT'L	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	FIRE SCOUT
SCALE 1:8	DATE 8/10/2007
	SHEET 10 OF 11

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Part #	UNIT QTY	Description
-A	1	BOTTOM ADAPTER ASSEMBLY
-11	10	S.H.C SCREWS 3/8-16 X 1
-13	1	S.H.C. SCREW 1/2-13 X 3-1/4
-15	10	WASHER Ø3/8
-17	1	NYLON INSERT LOCK NUT 1/2-13
-19	4	T-HANDLE QUICK RELEASE PINS Ø1/2 X 3
-21	4	LANYARDS W/ NYLON COATING Ø1/16 X 8
-23	2	BUTTON H.C. SCREWS 8-32 x 3/8
-43	8	NYLON INSERT NUTS 3/8-16
-47	4	#2 DRIVE SCREW
269T3301-14	1	CARRIAGE WELDMENT
269T3301-18	2	CRADLE ARM ASSEMBLY W/ CRADLE PADS
269T3301-19	2	CRADLE PADS FOR REPLACEMENT
269T3301-21	1	NUT PLATE WELDMENT
269T3301-22	1	CLEVIS PIN Ø3/8 X 1
269T3301-23	1	FLANGE NUT 1/2-13
269T3301-24	1	HAIR PIN
269T3301-25	1	STUD WELDMENT
269T3301-27	1	FRONT ENGINE MOUNT WELDMENT
269T3301-59	4	ROLL PIN Ø1/8 X 5/8 FOR REPLACEMENT
RB41011	1	DART PLACARD

DART
AEROSPACE

190 S. Danebo Ave., Eugene, OR. 97402

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dartaerospace.com

TITLE ENGINE REMOVAL ADAPTER			
DWG. NO. RBT18640-101	REV 5	CUSTOMER 1 OF 1	
SCALE 1:10	DATE 8/10/2007	SHEET 11	OF 11



Load Test Inspection Form

Part Number: RBT18640-101-P0

Work Order #: 203384

Type of Test:

Ultimate: ☐

Operational: ☒

Test #	Load Required	Pass	Fail	Done by	Inspection
1	400 LBS	✓		A. PATRY	
2	400 LBS	✓		A. PATRY	
3	400 LBS	✓		A. PATRY	
4	400 LBS	✓		A. PATRY	
5	400 LBS	✓		A. PATRY	
6	400 LBS	✓		A. PATRY	
7	400 LBS	✓		A. PATRY	

Technician: ALAN PATRY

Date: 2020-01-21

Signed: 

Inspector: DAS 68

Date: 9-89
JAN 21 2020

Signed: 